"To care for bim who has borne the battle, and for his widow and orphans."

### The National Tribune. (ESTABLISHED 1877.)

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ENTERED AT WASHINGTON POSTOFFICE AS SECOND-CLASS MATTER

WASHINGTON, D. C., SEPT. 15, 1904.

Is there any joke in the Democrats in

Maryland putting up Hill against Mudd for Congress?

THE Russian idea in sending forward the Baltic fleet is to find the Japanese fleet so crippled by its combats with the Russian ships and batteries that it can be easily overcome, and the Russian prestige restored. This looks well on paper, but it is a long ways from the Baltic around two continents. Coal will be hard to get on the way, and there is no telling what condition the Russian fleet will be in when it reaches the Japan seas. The Russians must not hope to repeat the Oregon achievement.

THE hot air artists, who are describing the fighting in the Orient, at a distance of several hundred miles from the front, are surpassingly funny at times. For instance, in describing the Russian retreat:

"Some descriptions of the scenes along the line of retreat are almost incredible. They tell how the men lay down in the mud and slept in a drenching rain and share in the body's slow decay, but rather without shelter."

probably never happened in any war be- in any community where there are septuafore, nor even to surveyors, hunters or genarians and octogenarians who are cowboys. It makes one's blood run cold counted the brightest and shrewdest in the to think of it.

country the exports of manufactures have gress of the United States, all of which exceeded those of agricultural products, are firmly controlled by men who are very The exports of iron, steel and copper have near or past 70, and whose vigorous inhad a most remarkable growth during a tellects hold their mastery in spite of the period of 34 years. In 1870 the exports fierce competition of younger men. of iron and steel were only \$13,000,000, In the civil service of the Government 948,586. Copper has risen from \$500,000 men have as a rule passed their third to \$57,000,000 since that time; mineral score. In very many cases their long exoils have increased from \$30,000,000 to perience and training have made them \$72,000,000; leather from less than almost indispensable to the Government. \$1,000,000 to \$33,000,000; cotton manu- Their years of service have given them a factures from less than \$4,000,000 to great advantage over younger men in their \$22,000,000; agricultural implements, thorough knowledge-intimate familiarity from \$1,000,000 to over \$22,000,000.

show nothing like the bloody obstinacy of below that efficiency rating: sustained greater losses.

has decided not to go to the Russian head- which they have become experts. sian prospects have so improved that his to turn out men who have been in public enable a host of Grand Army men in the if the combatants had at any time been Gen. Kuropatkin has quite enough useless demn the Government to get its clerks undoubtedly avail themselves. lumber already to guard and save, with- from an inferior class of men than seek about war to understand that about the the greatest inducements to a man in demost uncomfortable place this side of the termining where he will offer his services. unmentionable pit is in the path of a If he is not going to be treated as well by be considered at the business meeting. beaten retreating army.

NEVADA is looking up very decidedly. For a long time each census showed a decrease desirable man. in the population of the State, until in the last it appeared only 42,335, or less than that of a good average County in that a life-tenure with a retiring pension many of the States. This was only 4-10 when incapacitated is necessary to get the of a person per square mile, as against best men and the best service out of them. Rhode Island, which has 407 people per square mile. At one time most of the people in the State left it, but now there are efforts being carried to success to irrigate some of the fruitful valleys in the State and tempt small-farmers, and ranchers, of which is yielding \$6,000 to the ton, and Their Widows Out of the Public Service." will raise it to respectable dimensions.

It is hardly possibly that Russia can recover from her awful collapse for a half century. The feature that will be most crushing to her pride is that she is today no longer recognized in Europe as a friend to be valued, or an enemy to be feared. She has been regarded as one of it of any proposition yet made.

Civil Service can be improved, but Mr. Gillett's method has the least to recommend it, and the most to be said against it of any proposition yet made.

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The city has a great number of fine temples. The best coal in that part in the flowers their natural creamy. Europe would be either Republican or THE Russian reports say that for sev- hood of Mukden, and in great abundance. Russian. More than a half century has eral hours each day at Lizo-yang, the Jap- The place has several names, the Chinese elapsed since Napoleon's time, and it has anese artillery fire averaged one shell a calling it Shingking, which is its official great number of men lost about as many frequently looked as if Russia would second, and rarely fell less than 20 a min- name, while another name for it is Shengspread all over Europe. Now Germany ute. A shell a second would be 3,600 an Austria have been freed from the fear of Russian invasion from the R fear of Russian invasion from the East, averaged 10 pour and France, which has been coquetting fired 18 tons of artillery ammunition per with Russia to offset the "Dreibund" sees hour, or 108 tons in six hours. This was that Russia will not be any help to her in a a good load for a train over the railroad on saying the Japanese "advancement," Union did a great work in Boston in discollision with her neighbors. She has upon which the Japanese must get all their Kuroki's "advancement," etc., when they pensing lemonade among the marchers in found that while cauliflowers will grow therefore taken time by the forelock and supplies. Meanwhile the Japanese infan- really mean "advance." They remind one the Great Parade. They had seven very tall under electric light, they have come into much better relations with Ger- try must have been quite as active in get- of the old fellow who conceived that stands along the line of march, from which many, Italy and England. Great Britain ting rid of ammunition, so that altogether "termini" was a more elegant form than they served cooling refreshments and with influence of the lamp. As we do not prize the cauliflower for its stature, or the radsian aggression upon Turkey and advance appeared between meals, and then the "termini" of the railroad when he took a which was the following inscription: upon Afghanistan and India. The whole army ate up a couple of trainloads of train. "Advance" is the proper term for "In this cup there is no sting, no alco-

#### THE GILLETT BILL.

A measure more indefensible from most upon reaching the age of 70 has seldom, if ever been presented to Congress. It was about as vicious a bit of generalization as promptness in adjudicating claims. can be imagined, and as inimical to true public policy as mercilessly ungrateful. It was vicious in its generalization, be-

cause of assuming that the age of 70 inevitably brings marked diminution of men's mental powers. This is not borne out by observation of men in any of the ordinary walks of life. While it is true that many men show a marked mental decay at 70, a still larger proportion show an intellectual decline at 60, still more at 50, and still more at 40. In any given thousand of men a very large percentage will show a strong mental decline as soon as the first flush of youth is passed. Very many men lose their quickness, alertness, energy and readiness of comprehension as soon as they turn 30. This is because they are that kind of men. They get heavy. flabby, dull and listless. Others do not do this until they pass 40, and others as they turn the half-century mark. Office: 389 Pennsylvania Avenue N.W.

It is the same way with their physical vigor. Of every 1,000 children born 250 die before reaching the age of six, one half before reaching the age of 16, and only one in 10 lives to be 65.

Take De Moure's famous law, for instance, which is the basis of all life in- August 1900 ...... 9,770 surance calculations. This is that of every 86 children born on the same day, one will die every year until all are dead.

Therefore one-half of them have deby the time they have reached 43. Conse- of the Bureau nearly 66 per cent. and in emptorily retired at 43. If they are not sions allowed. already dead they are suffering such menunfit for Government service.

At the age of 50 there should be but 36 of the original 86 retained, and so on. Every observing man will say that this is absurd, for at 40 and 50 men are at their very best for mental work.

As a rule, long-lived people have unusual mental activity, and this does not seems to ripen and improve with age. How perfectly awful. Such a thing Evidence of the truth of this can be found neighborhood

The best proof of it is afforded by the For the first time in the history of the Cabinet, the Supreme Court and the Con-

while this year they have reached \$111,- the confessedly ablest and most valuable -with every possible phase and feature

of their official work. They accomplish THE Japanese give out an estimate of much more in a day, because they know and wounded in 19 days' fighting is 17 .- Washington-conducted with no friend-539. If we could now have a good guess liness, to say the least, toward the older at the number of men they had engaged, men-there are always numerous astonwe could get an accurate idea of the ishing instances of old clerks making a

the Government as by a corporation, he will go to the corporation, and the Government will have to put up with a less

All other civilized Governments have long ago settled down firmly to the rule Mr. Gillett's bill simply slaps in the face the civil service ideas of every other Na-

Our most particular concern is for the veterans of the war of the rebellion, and their widows, who would be more immewho will permanently build up the coun- diately affected by such a law than any try. On top of this comes the news of an other class. It ought to be termed "A unusually large find of rich gold ore, some Bill for Weeding Union Veterans and there seems to be limitless quantities of for that would be its chief result. By the it. The information in regard to the gold time it would be in operation a year or ore seems to admit no doubt, and the two, the dissatisfaction with it would be probability is therefore strong that there so pronounced that it would have to be will be such an increase in the State as repealed. In the meanwhile, however, all the veterans and their widows would be gone, and we know how hard it is to get a veteran reinstated, after he is once out the Imperial Palace. The place has a

There are many ways in which the Civil Service can be improved, but Mr. among the people, and the Scotch and

is a piece the Japanese

#### A SPLENDID MONTH'S WORK.

The report of the work of the Pension points of view than Mr. Gillett's bill to Bureau for the month of August is now arbitrarily retire all Government employees out, and it is a most pleasing and creditable exhibit of the steadily increasing efficiency of the clerical force under Com-

was:		
Invalid:		
Original	2,758	
Increase	7,607	
Restoration	21	
Renewal	206	
Reissue	122	
Supplemental	30	
Additional	1,463	
Total		12,207
Widows:		
Original	1,887	
Restoration	3	
Renewal	153	
Reissue	40	
Supplemental	12	
Increase	4	
Total		2,099
Indian Wars:		27/100220
Survivors	35	
Widows	30	
Total		63
Mexican War:		
Survivors	46	
Widows	60	
Total		106
Duplicates		183
Accrued		
		-,000
Grand total	1	16.329
	2005(1503)200	

of the years immediately preceding:

of the Government clerks ought to be per- judicated, and certificates issued pen- they struck the railroad in his rear, betal and physical decay as to render them hibit of the efficiency of the Bureau in a man professing to understand the art explanation is that both the water and the

> up to date. The following shows the number of unsettled claims on file in the Bureau at what has been repeatedly termed as bloody

the dinerent	dates .	
July 1, 1901		403,569
July 1, 1902		339,436
July 1, 1903		304,809
July 1, 1904		285.523
Aug. 1, 1904		271.243
Sept. 1, 1904		269,419
Therefore	though new enr	liantions have

been pouring into the Bureau at the rate creations of the heated brains of correof 200,000 a year, the number of unadin-spondents. The reports of the losses dicated claims has been reduced in 26 demonstrate this conclusively. While months from 339,436 on July 1, 1902, to there is much talk of the Russians losing 269,419 on Sept. 1, 1904—a reduction of 20,000 to 30,000 men and the Japanese 70.017, or at the rate of nearly 2,700 a loss reaching 30,000, the details do not

Tennessee, "such a record as this is not been inevitably a large number of pris-Tennessee, "such a record as this is not an accident." It shows the steady, persistent, capable application of correct business principles and methods in the killed and wounded and greatly evergence. management of the Pension Bureau.

### THE ARMY OF THE CUMBERLAND.

land will hold its 32d Annual Reunion Russian positions, in all the tumult of at Indianapolis, Sept. 20-21, with Head-such an awful retrent as that the Russians deal of discrediting lightning-rods, both by quarters at the Claypool. The business had to make over but three muddy, rough, eral trend of opinion has been against meeting will be held on the first day, the imperfectly-constructed roads, crowded Reunion to take place in the evening, with all their trains, the Japanese have lightning-rod gets a boom from a commitwhile the annual banquet will be on the not reported taking so much as a single their losses, which bears internal evidences at once what to do and how to do it, while 21st. That gallant veteran Gen. John Russian regiment. While the Japanese of being fairly correct, though the propor- newer comers have to study out or be Coburn is the Chairman of the Local have accomplished wonders and are ention of officers killed and wounded seems laboriously informed what to do. In the Committee, and the oration will be delivrather small. It is that their total killed examinations in the Departments at ered by Hon. Orlando A. Somers, a priderson as alternate.

quarters in Manchuria, "until the Rus- It would be still worse public policy Branch. His presence at Indianapolis will This could not possibly have been the case presence will not be so embarrassing." employ for years, for no other reason than central West to meet him, and it will be close together, and engaged at what could That shows good German hard sense. they have reached 70. This would con- a pleasant opportunity of which they will be termed short range.

The Society, which is composed of both

## to be present with them.

MUKDEN. Mukden, the Capital of Manchuria, which is now passing into the hands of the Japanese and will probably be retained by them, is situated in the southern part of the great province and is on the River Liao, about 325 miles northeast of Pekin. to that province. It is therefore a very old city, and has a great deal of history connected with it. Near it are the tombs of the great men of the earlier history of the present reigning family of China.

The town is surrounded by a high wall of excellent masonry and is a parallelogram in shape. Outside are the suburbs, which stretch for a long distance, and which are protected by a mud wall. Inside the town is a third wall surrounding and a younger man has gotten hold of his population of about 250,000, and enjoys a very large trade with the surrounding of the Orient is found in the neighbor-

THE eastern war correspondents insist

ne present reigning family in China

### THE BATTLE OF LIAO-YANG.

The operations in Manchuria, except at

Port Arthur, seem over for the present, though it is likely that the Russians will continue their retreat to Harbin, and the missioner Ware's administration and of Japanese will advance and take possession of Mukden. At the present moment The number of certificates of the dif- both armies are so worn out by the great ferent classes issued during the month strain of the recent movements that a period of rest is imperative, especially to the Japanese, who have had to make exertions, straining every man in the army to the last limit of endurance. The great events of the fortnight have been:

> 1. Gen. Kuropatkin occupied a very he had fortified with much skill and an enormous amount of labor. It was naturally a very strong position and the work upon it with the heavy guns which garnished it profusely, gave every promise that he could hold it against any nummany men he had in this position is the merest guess. The correspondents and the official re-

Japanese probably had more men than the To better appreciate this showing let Russians, but not so many more. As near cent. more.

2. The Japanese, bringing up three 14.729 advantage of his great opportunity to of the disks into connection. When unite. They spread all along his front, Mr. Gillett's age rule is made, one-half the Bureau's output of work in cases ad- then coming up around his left front until tween him and Mukden. This was a most disposing of the accumulation of long- of war and having under his command anystanding claims, and bringing its business thing like half the number of men Kuropatkin was reported to have.

> 3. These movements involved a series of battles, but which appear to have been nothing more than what we would term in our war artillery duels and skirmishing at long range. All the talk about fierce bayonet charges, hand-to-hand conflicts, and frightful mowing down of men by Therefore though new applications have shrapnel and canister we can dismiss as bear out any such loss. In a collision such As Gen. Grant said of the Army of the as has been described there would have and greatly exaggerate the loss they inflicted upon their oppon-The Society of the Army of the Cumber- taken. So far in all the abandonment of Montana, Oregon, and New Mexico.

vate soldier, with Gen. Charles F. Man- guine hopes of making a Sedan of it, as it looked at one time that they would do. A most interesting feature will be the presence of Commander-in-Chief Black- war and utterly ruined the Russian mili- \$4,353,469, which the committee thinks desperateness of the fighting. If they had percentage of from 95 to 100, where much mar, who will speak at the public exertary prestige. On the other hand, Kuro- might have been avoided if proper lightas many as 200,000 men in line, this would younger men fall from 10 to 20 per cent. cises. Gen. Blackmar served in the Army patkin is entitled to the credit, of partial-ning-rods had been installed. of the Cumberland as a member of the ly offseting the terrible blunders of the Gettysburg, Chickamauga or the Wilder- It would be manifestly very bad public 15th Pa. Cav., and he will have to make earlier part of his campaign and of havness, where less than half that number policy to turn out summarily clerks and unusual efforts to be present, as he agreed ing successfully extricated a large part of others whose knowledge and experience to be with the Medal of Honor Men at his army from imminent destruction. How are essential to the rapid and correct Long Branch, and this will compel him much of it he has saved is another ques-PRINCE FREDERICK LEOPOLD of Prussia transaction of business in the lines in to limit his stay at Indianapolis to one tion. He claims to have brought off most day, and immediately start for Long of his guns, but this seems impossible.

4. The crippled condition of Kuropatkin, It is expected that rates will be se- in men, guns, and ammunition has led found in Bulgaria. Almost the entire outout having a Prince and his outfit kicking employment on railroads and in other cured on a basis of a fare and a third. him to continue his retreat to Harbin, put of radium is now obtained from Ameraround under his feet and getting in his great corporations. To retain his place as The question of selecting Chattanooga as where he must remain for some weeks or way. The Prince doubtless knows enough long as he does his work well is one of the permanent meeting place and also to possibly for months until he can refit and change the time of meeting from Sep- reorganize. There he will have better railtember to the middle part of October will road facilities to bring him men, guns, arms and stores.

> 5. The Japanese are also exhausted. enlisted men and officers, does not confine They have suffered enormously in the abits invitations to its own members, but solute wearing out and breaking down of cordially invites members of other armies their men, as well as the loss in battle so that they are in no condition for an

6. It looks now, as was foreshadowed by The National Tribune at the begin-ning of the war, that the Russians will nated" wool produces physiological effects the Japanese assuming theirs at Mukden. of the body. Five or ten milligrammes of It was the capital of the present ruling About midway between these places is a radium may be made to energize a large high ridge dividing the waters of the Sungari River, which flows into the Pacific, from those of the iao, which flows into the Pacific, from those of the iao, which flows into the Lice Venz Chile. This ridge ridge was a radium may be made to energize a large quantity of wool, and, as the radio-activity is retained a long time in hermetically-sealed vessels, "emanated" wool may be transported long distances, and may soon churian Tartars, and confined their rule Sungari River, which flows into the Painto the Liao-Yang Gulf. This ridge will probably be a division line between the lar stock in trade. Japanese and Russian armies, for some time. The Japanese will now bring about the fall of Port Arthur at the earliest moment, and the first great epoch of the war will end. edt !

Amm all this, verbal cyclone about infernal slaughter in the fighting around Liao-yang an occasional fact creeps out in this country. It has been found that all which gives usit something of statistical plants can not be treated alike, and invesvalue. One of these is the official report killed, 35 wounded, and one missing. The gave the flowers their natural creamy war strength of a division is about 16,000 color, and made the leaves strong, firm, men, therefore it would appear that this of flowers are enriched by the light, and men in 10 days' fighting as a little brigade | temperature without the light, with its aid

THE Women's Christian Temperance

European situation has been altered by the collapse of Russia as one of the potent factors in the situation.

The whole European situation has been altered by the collapse of Russia as one of the potent factors in the situation.

"In this cup there is no sting, no nice the proper term for rations at each of the three meals. So that railroad has had to do a very trying factors in the situation.

"In this cup there is no sting, no nice the rations at each of the three meals. So that railroad has had to do a very trying factors in the situation.

"In this cup there is no sting, no nice there is no sting, no nice the rations at each of the three meals. So that railroad has had to do a very trying ing "ment" onto the word neither makes it more forceful nor elegant.

"In this cup there is no sting, no nice there is no sting, no nice.

"In this cup there is no sting, no nice.

The whole point the end of a pole, with a free cup of lemonade, is the greet reaches its mark from four to ten days with a coiled spring at the top, which will ing of the W. C. T. U. of Boston and learning the proper term for rations at each of the three meals. So the reaches its mark from four to ten days open with the weight of a piece of fruit, vicinity to the soldier.

"In this cup there is no sting, no nice."

"In this cup there is no sting, no nice."

"In this cup there is no sting, no nice."

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"In this cup there is no sting, no nice."

"In this cup there is no sting."

"In this cup there

# SCIENCE AND INVENTION.

Work of the World's Busy Brains in Discovering, Inventing and while recalling how the State has gone Creating.

#### SCIENTIFIC NOTES.

The world's greatest geyser seems to be loose stones fall into the neck of the tunstrong position around Liao-Yang, which nel filled with hot water, closing the passage until the rising steam pressure forcibly ejects them.

A queer development of the potato bug pest is reported from Massachusetts, where the bugs have stalled the cars on the setting in of cool weather the warmth ber of men that the Japanese could bring. of the rans have attracted meighboring that they swarm over the neighboring Probably any other European army than fields in such quantities that, when 2,000 feet, or more than a third of a mile the Russian would have held to it. How crushed under the wheels of the cars. away. they grease the track so badly as to prevent the cars running.

Everybody who rides on a trolley car has noticed the crank which the motorman ports have it in the neighborhood of 200,- works so incessantly, and most people 000 men, but this is incredible. Our guess think that it must connect with a compliwould make it less than 100,000. The cated set of machinery in the iron box below. This is a mistake; the crank-or controller, as it is technically named-is connected with a spindle upon which are us compare it with the work for August as can be found they had about 25 per disks that form connection with 13 wires torman moving the controller has been likened to the opening of a spigot of a wa-August 1901 ...... 8,524 armies from different directions, success- ter pipe, when he wants a little power he August 1902 ...... 8,494 fully united them, Kuropatkin taking no turns it very little, and this brings a pair strike them in detail, but allowing them 13 wires connect to give the full power of wants more he turns it forward until all This shows that in the first year of to push his outlying posts back on the the current. There are preventives for cayed-mentally and physically-and died Commissioner Ware he increased the work roads on which they wanted to advance and any excessive force of the current. When an excess strikes the controller it explodes quently, if the hard-and-fast application of the second year he almost exactly doubled enveloped his right flank on the west; and broken. This startling event is not dangerous to anyone if they keep their seats. the motorman's clothes may be burned.

Next, we have a similarly gratifying ex- extraordinary thing to do in the face of down stream faster than the water. The floating object are being pulled down hill by gravity, but the water is much more retarded by friction.

From the latest earthquake data, it is inferred that the crust of the earth is not more than forty miles thick, and that the nucleus is more uniform in chemical and physical conditions than is usually sup-

The United States Geological Survey is perfecting plans to have reports and records of well-boring in all parts of the country, to add to our geological knowledge. It desires all well-drillers and owners to send their addresses, samples, and records to the Survey at Washington, D. C. It will send them bags in which they may transmit samples through the mail without the payment of postage, and also a memorandum book for noting their borings. A report of the operations, with names, will be given at the end of each

The gypsum industry is growing rapidly in this country, and the product for 1903 grappling device pivoted in the carrier-was 1.041,707 short tons, valued at \$2 importance as producers, are Michigan, being of a semicircular shape in horizontal New York, Iowa, Texas, Ohio, Oklahoma, ents, yet they would both as naturally Kansas. Wyoming. Colorado, Utah, Virmake the most of the prisoners they have ginia, California, South Dakota, Nevada,

scientific and practical men, and the genthem as a means of protection. Now the tee of the National Fire Protection Association, which had been studying the matclusion that lightnings-rods installed properly are worth far more than their cost. It is strongly stated that this does not mean by any means the lightning-rods put up by the traveling fakirs who are out for the farmers' money. Out of an average

### A PHOTOGRAPH TAKEN BY RADIUM.

(Sunset Magazine.) A photograph made with a piece of ore containing radium, through the opaque shutter of a photograph plate-holder, is made in the Utah State Building at the St. Louis Fair, by S. T. Whitaker, Director-General of the State Exhibit. The ore is from Richardson, Grand County, where the mineral is being mined for commercial purposes. The Richardson ore is being used by the French experts who discovican ores, and the mine at Richardson, Utah, has recently been purchased by a wealthy syndicate. Althought the photograph taken by Mr. Whitaker was only the reproduction of the slide of the holder, it was obtained by simply placing the piece of ore on the shutter and leaving it over night.

# MAKING RADIUM AVAILABLE.

Radium inflames the skin and destroys cine is yet to be determined. When it shall advance of any magnitude. They have have been found useful, Dr. E. S. London, probably fired away all their ammunition a Russian physician, proposes to make its and broken their batteries down. with various substances, he has shown that wool absorbs a large quantity of the make their main position at Harbin with similar to those of radium itself. The become a part of the pharmacists' regu-THE ELECTRIC LIGHT ON PLANTS.

The British Royal Horticultural Society

is about to enter upon a series of extensive experiments as to the effect of electric light on plants, and the proposition brings out a protest from the humanitarians, that this will deprive the plants of their needed rest. which seems absurd, since we do not grow plants for their sake, but our own. Electigation has shown that a great deal of of flowers are enriched by the light, and many plants which would wither in a high electric lamp long before the same plants under the daylight alone. But, on the other hand, Professor Bailey, at Cornell University, and the authorities of the smaller heads, and radishes develop exish as a foliage plant, these advantages

#### SHOWERS IN THE AFTERNOON.

A man who has studied meteoralogy for a number of years says that the reathat of Rotorua, in New Zealand. A reson we have more showers in the after-cent visitor, J. A. Warnock, states that it noon is because of the upward movement noon is because of the upward movement plays about 22 times each month, the "shots" often reaching a height of 900 as a result of the air movement in the to 1,200 feet, and the basin covers about afternoon, and the gradual withdrawal of 1892-President two and a half acres. One theory is that the sun's force as the orb rolls down toward the western horizon will bring about 1896-President just those conditions favorable to the production of showers, and the next result is the showers we so often experience in the

HEAT FROM THE STARS. .

Prof. Nichols, the astronomer, made a wonderfully delicate instrument some time ago to measure very faint heat waves. It is so sensitive to heat that it registers the warmth that emanates from a man's face

With this instrument Prof. Nichols tried experiments in the Yerkes Observatory. He selected the two stars Vega and Arcturus. These stars are so far away from the earth that the human mind cannot conceive the distance.

Prof. Nichols found that Arcturus sends the earth as much heat as a man could get from a candle burning six miles away from him. Vega was found to send only half as much heat as this.

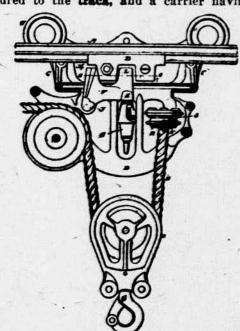
#### NEW PATENTS.

The following are among the more interesting of the recently issued patents:

To Wm. Louden, Fairfield, Iowa.

"The combination of a track, a stop se cured to the track, and a carrier having

In his first specification the inventor



HAY-CARBIER.

a locking-dog hinged at one end, and cooperating in the usual manner with a section, and the spur over the hinged end section.'

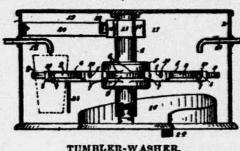
A PINLESS CLOTHES LINE, Robert W. Ivey, New London, Conn.,



their mouths full of clothes-pins. He has patented a clothes-line with the pins at-

tached, and describes it thus: "The herein-described clothes-line con prising link-sections, each section provided with the spring-arm constructed with the throat-opening, a straight horizontal por-tion, and upward and inwardly inclined portions forming a loop, said loop adapted to receive the surplus or slack of the clothing passed beneath the spring arm."

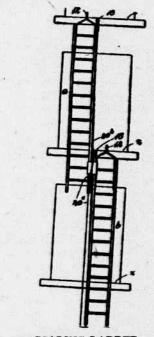
A TUMBLER WASHER. Az Satterfield, Knoxville, Tenn., believes he has a boon for housekeepers, saloon-keepers, soda fountain people, etc., in a tumbler washer, which consists of a



turn table which has a clutch for the tumblers and automatically tilts them to receive the dash of water, and then reverses them to empty and dry them.

A SCALING LADDER.

W. F. Sampson, Medford, Mass., has



SCALING-LADDER.

men and others, having to mount buildings. It consists of two sections, sliding together, each section to grip on a window

A FRUIT GATHERER. Jos. A. Dansereau, Woonsocket, R. I. has natented a fruit gatherer. It is essen-



### POLITICAL NOTES.

Indiana is the subject of deepest inter-Dem.

Rep. 1872-President 186,147 22,515 R. ...163,632 1876-President .....213,526 208,011 5,515 D. 1880-..225,528 232,164 6,641 R. ..244,992 238,480 6,512 D. .261.013 263,361 2,348 R. ...262.740 255,615 7,125 D. ..305.573 18,181 R. Secretary of State . 17,518 R. ..269,125 286,643 1900—Governor 306 368 331,531 25,163 R 1900-President 309 584 333.063 -Secretary State ......263,265 298.819

United States Senator Nathan Bay Scott, of West Virginia, says: "Giving the Democrats everything they claim in my State, allowing for the return of the gold Democrats to their party, admitting that the talk about the race issue is not fallacious, and after all West Virginia will be carried by Roosevelt and Fairbanks by 12,000 plurality." The recent record of the State is as follows: 1892, Cleveland's plurality, 4.174; 1896 (McKinley's pluraliplurality, 4,174; 1896, McKinley's plurali-21,022; State election, 1902, Republican plurality, 18,581.

It will be observed that the Democrats must corral 18,000 more votes this year than they did in 1902, if they are to carry the State.

The Democrats of Delaware have nominated a State ticket with K. S. Pennewell for Governor and Edward D. Hearne for Congress. The contest over the gubernatorial nomination was quite bitter. Pennewell is about 70 years old and a wealthy lumber merchant. The platform indorses the St. Louis platform and denounces the Republicans of Deleware for controlling the State by a purchased and debauched negro vote.

At the meeting of the Republican managers in New York, Sept. 6, it was generally agreed that a strong position would be maintained on the party's "tariff policy" and that nothing spectacular will be done in this campaign in the way of monster demonstrations and parades

The Arkansas State election resulted in the Democratic nominees receiving about 85 per cent. of the total vote, except Gov. Davis whose majority was cut in two, if not worse, by the strong opposition to him among the Democratic leaders.

The result of the elections in Vermont had been waited for with greatest anxiety by both sides, as it would indicate whether there was any of the apathy or the ten-dency to landslide, which has been the Republicans' greatest fear and the Democrats' brightest hope. The returns are quite encouraging to the Republicans and the reverse to the Democrats, since the Republican plurality will be fully 31,500 or a slight increase over the phenor majority received by Gov. William W. Stickney in 1900. The Democrats gained in three Counties 212 votes, and lost in the other 11, 1,241, making a net Demo-cratic loss of 1,029. The Legislature will be more completely Republican than it has been for many years. In the last Senate there were five Democrats, but there will Republicans, 30 Democrats, three Independents, and two "Citizens" in the House, where last year the Democrats had 50

The New Hampshire Democrats have nominated Henry F. Hollis for Governor. The Connecticut Democrats have nominated Judge Heaton Robertson, of New Haven, for Governor, and after indorsing the St. Louis platform demand Canadian Reciprocity. They also denounce the last Republican Administration as the most extravagant in the history of the State.

There is a great strain of the relations between Chairman Taggart of the Democratic National Committee and Ex-Senator James Smith, of New Jersey. Mr. Smith was for Cleveland, and not a Parker man. Taggart was at first of the opinion that Smith was the undisputed boss of New Jersey, but now says that the ex-Senator is very unpopular, and that he made a mistake in giving him control of things in New Jersey, especially since he has been so lukewarm. Hearst, of the New York Journal, is after Smith's scalp because at the time of the April conventions Smith threw out the Hearst men. Smith is reported to have said that Taggart is a heap country politician, which it was a mistake to put at the head of a National

Judge Seldon, of New Haven, has been selected as the candidate of the People's party of the State for Governor of Connecticut. The State platform reaffirms the Omaha and Springfield platforms.

The Republicans will make an active campaign in the Southern States, and hope to gain several members of Congress. In l'ennessee the Democrats are said to be in trouble, and that the liquor question is dangerous to the State ticket as well as some local candidates.

Capt. A. T. Wimberly, who has been a prominent office holder in New Orleans under the Republican Administrations. but who failed to get a reappointment that ne was after, is out in a pamphlet denouncing Roosevelt and urging the negroes to vote for Judge Parker.

Ex-Senator J. K. Jones, of Arkansas,

who was Chairman of the Democratic National Committee during Bryan's two campaigns, has been appointed to the present committee in an advisory capacity. He will not be assigned to any special work. but will go to New York and remain near the committee, where he can be consulted Col. James M. Guffey, of Pennsylvania, has gone to New York to assist the Democratic Executive Committee to the end

order to meet the complaint that the campaign was to be in the hands of the "Gold There is strong talk of nominating Representative William Sulzer for Governor of New York, to counteract the inroads upon the Democracy made by Watson's raid

of the campaign. There has been a bring-

ing together of the old Bryan leaders in

into the State. The Republican State Committee of Georgia has announced its list of electors.

which has no negro upon it. Senator Beveridge says that the fight has already been won. In Indiana the majority of 35,000 at the last election will be increased, and one of the four Congressional Districts now held by the Demo-

crats will be recovered. The West Virginia Republicans are disturbed by factional fights which have so far resisted all attempts at settlement. The belief is, however, that there is no doubt about carrying the Legislature and reelecting Senator Scott.

Senator Kearns is leading in a movement to organize an anti-Morman party in Utah, and the Salt Lake Tribune, formerly the Republican organ, is support-

The Montana Republicans have nominated William Lipdz for Governor and renominated Joseph Dixon for the Congress-man-at-large. The platform, after indorsng Roosevelt and Fairbanks, declares for the initiative and referendum, an eight hour law and a fellow servants bill.

The Democrats of Indiana have hopes, on account of the migration of 10,000 glass workers who were formerly of Ohio, and largely Republican. On the other hand, the Republicans are confident that the miners of the State, who include many thousand Democrats, will vote for Roose-velt out of admiration for the man.

The Democrats begin to lose hope in regard to New Jersey, owing to the refusal of the faction opposed to Ex-Senator Smith to sheathe their knives. It is claimed that Ex-Senator Smith suiked three years ago, and succeeded in defeat